Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-28-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Leveling site and construction of Retaining wall to Indira Kitchen at BWSSB property in Sy No.109, Singapura Village in ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th C Main road, 3rd Y Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 70%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.12	_
2	Finess by Air permeablity method (m^2/kg,Min)	389.7	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig. Date. BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 06-10-18

Lab ID	:	**CP-2018-09-28-01**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Leveling site and construction of Retaining wall to Indira Kitchen at BWSSB property in Sy No.109, Singapura Village in ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th C Main road, 3rd Y Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-28-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Leveling site and construction of Retaining wall to Indira Kitchen at BWSSB property in Sy No.109, Singapura Village in ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th C Main road, 3rd Y Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	455	455	3.0	97.0	90-100
3	20 mm	7511	7966	53.1	46.9	30-70
4	10 mm	4799	12765	85.1	14.9	10-35
5	4.75 mm	2014	14779	98.5	1.5	0-5
6	Pan	221	15000	100.0	0	---

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-28-01** **Date: 01-10-18**

Sample ID No : 2018-09-28-01 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**15.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.38**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.29**	_

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-28-01** **Date: 30-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Leveling site and construction of Retaining wall to Indira Kitchen at BWSSB property in Sy No.109, Singapura Village in ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th C Main road, 3rd Y Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/140/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-18

Sample ID No : 2018-09-28-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 28-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	177	195	19.5	80.5	60-95	75-100	85-100	95-100
4	1.18 mm	205	400	40.0	60.0	30-70	55-90	75-100	90-100
5	600 micron	203	603	60.3	39.7	15-34	35-59	60-79	80-100
6	300 micron	244	847	84.7	15.3	5-20	8-30	12-40	15-50
7	150 micron	114	961	96.1	3.9	0-10	0-10	0-10	0-15
8	Pan	39	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-28-01** **Date: 30-09-18**

Sample ID No : 2018-09-28-01 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.09	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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